FD-42A

SERVICE MANUAL



6843 US Model Canadian Model E Model

SPECIFICATIONS

TV standard American TV standards

TV channel coverage

VHF channels 2-13 UHF channels 14-69

OHF channels 14-0

Antenna VHF/UHF telescopic antenna
Picture tube 10-cm (4-inch) picture measured

diagonally

Speaker

Approx. 5cm (2 inches) dia.

Input

US, E model: EXT ANT (mini jack), 75 ohms

unbalanced

Output

Earphone jack (minijack)

load impedance 8-300 ohms

Battery life

Battery	approx. hours
Sony SUM-2 (NS)	1.5
Sony AM-2 (N)	5
Rechargeable NC-C2	2

Power comsumption

3.2W (6V DC)

Power requirements

6V DC: Batteries

four size C (R14P) battery

DC IN 6V jack accepts: AC-D4L AC power adaptor

for use on 120V ac, 60Hz DDC-40A car battery cord (optional)

for use on 12V DC



Dimensions

Approx. 127x216x66mm (w/h/d) incl.

projecting parts and controls

Weight

Approx. 1.2kg (2 lb 11 oz) incl.

batteries

Approx. 0.93kg (2 lb 1 oz) not incl.

batteries

FEATURES

• Miniature B/W TV for portable or desktop use.

• 4-way power supply capability.

• External antenna jack for home and car use. (US, E model)

NOTE: Use only an AC power adaptor or car battery cord manufactured by Sony. The polarity of the plug of other manufactures may be different.



Polarity of Sony plug





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FD-40A disassemble and dial string procedures are available for this set. See FD-40A service manual.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS AND IN THE
PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS
WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS
MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

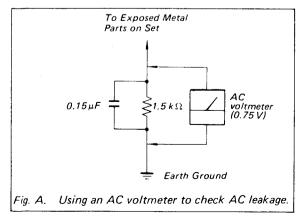
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement
- Check the line cord for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any).
 - Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- 8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



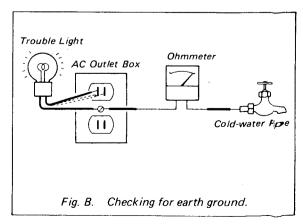
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

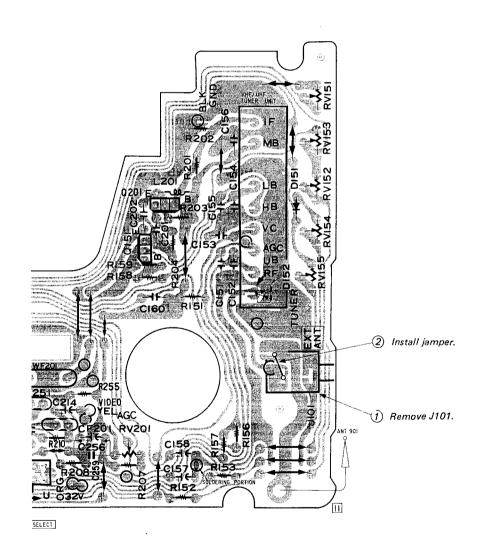
A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



PRECAUTION FOR A BOARD REPLACEMENT (Only for Canadian Model)

Perform this parts replacement only for Canadian model.

EXT ANT (external antenna) jack J101 is mounted on A board for repair, but J101 should not be used in Canadian model. In case of Canadian model, perform the following procedure.

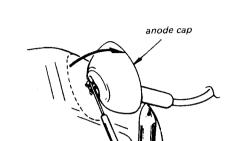


NOTE ON THE ANODE CAP REMOVAL

Even when the power switch is off, the voltage at the anode cap is still high.

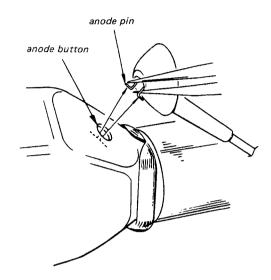
Remove the anode cap as follows.

1. Discharge the anode pin to the ground.



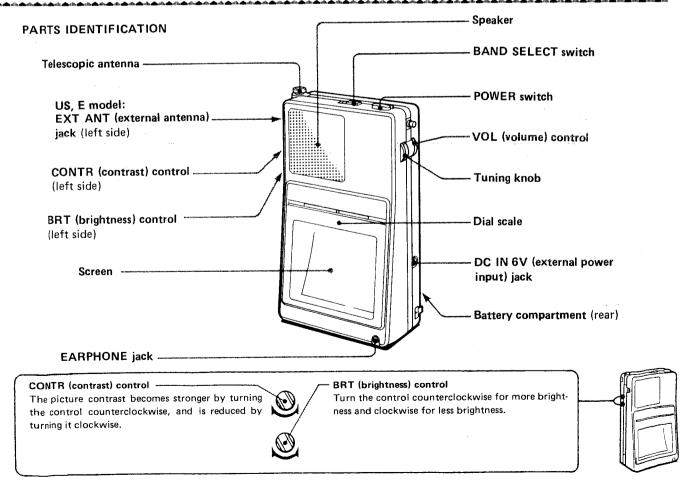
2. Pinch and remove the anode pin with a pair of tweezers.

At this time, be careful not to scratch the anode button.



Caution on Reinstallation :

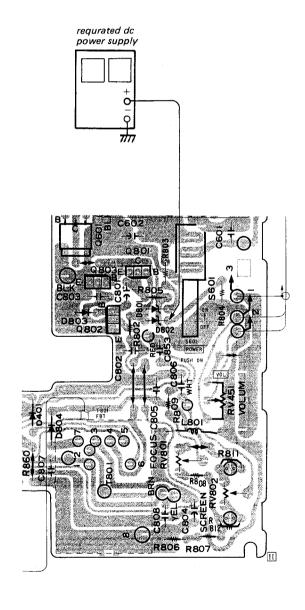
Confirm that the anode button is inserted into the anode cap securely.



SECTION 1 ADJUSTMENTS

HOLD DOWN CIRCUIT CHECK

- Connect regurated dc power supply to DC IN 6V jack (J601).
- 2. Confirm that the set operates when applying $7.4 \pm 0.1 V$.
- 3. Confirm that the set does not operate when applying $8.7 \pm 0.1 V$.
- 4. Disconnect requrated dc power supply.
- Connect requrated dc power supply as illustrated.
- 6. Confirm that the set operates when applying $6.0 \pm 0.1 V$.
- 7. Confirm that the set does not operate when applying 7.2 + 0V = 0.1V.



NOTE

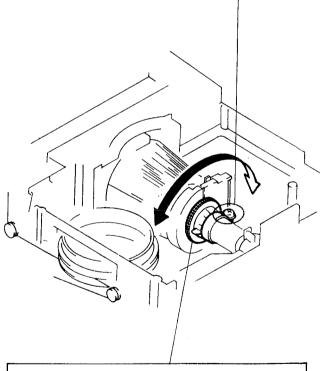
- 1. Test Equipment Required
 - regulated dc power supply
 - color-bar/pattern generator
 - frequency counter
 - digital voltmeter
 - VOM
- 2. Input Signal

Cross hatch color-bar or off-the-air signal.

- The adjustment should be performed with 6V dc and about 5 minutes warmup unless otherwise noted.
- 4. Position the set vertically with the front side faced to the north for TV-section adjustments.

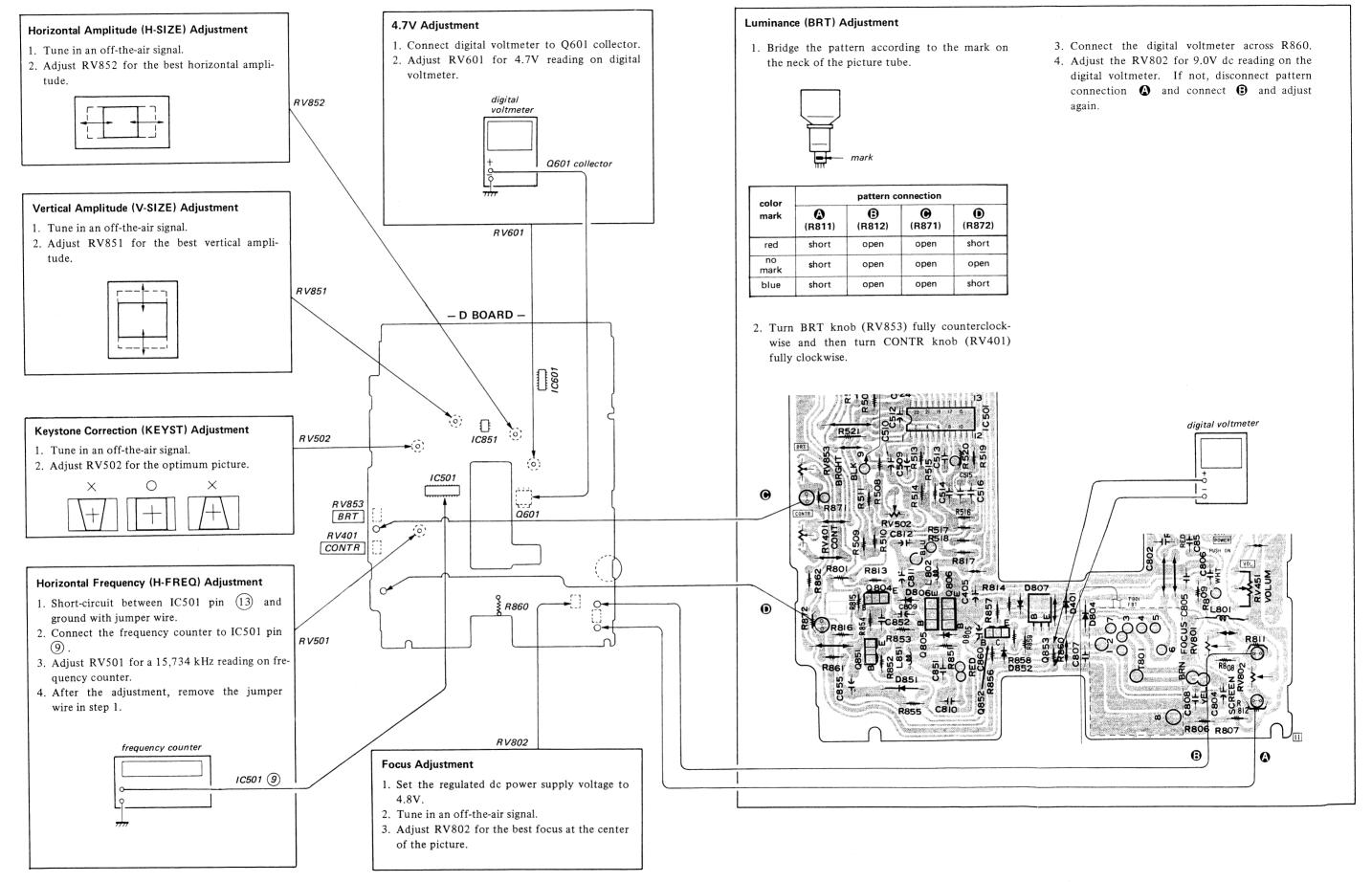
Horizontal Adjustment

- 1. Loosen the adjustment screw.
- 2. Tune in a test or off-the-air signal and adjust deflection yoke for optimum horizontal picture.
- 3. Tighten the screw after the adjustment.



Centering Adjustment

- 1. Tune in a test or off-the-air signal.
- 2. Adjust the two centering magnets so that the picture is at the center.
- 3. Lock the magnets with locking compound after the adjustment.



ector. ligital

Luminance (BRT) Adjustment

1. Bridge the pattern according to the mark on the neck of the picture tube.



(R811)

short

short

mark

red

mark

blue

mark			
pattern co	onnection		
(R812)	(R871)	(R872)	
open	open	short	
open	open	open	

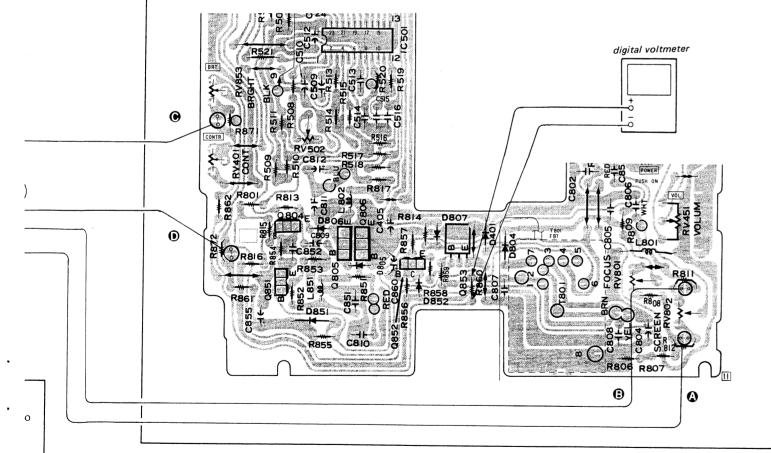
open

short

2. Turn BRT knob (RV853) fully counterclockwise and then turn CONTR knob (RV401) fully clockwise.

open

- 3. Connect the digital voltmeter across R860.
- 4. Adjust the RV802 for 9.0V dc reading on the digital voltmeter. If not, disconnect pattern connection (a) and connect (b) and adjust again.



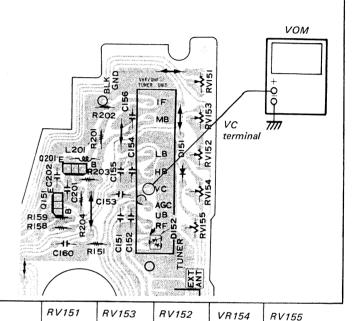
Channel Display Adjustment

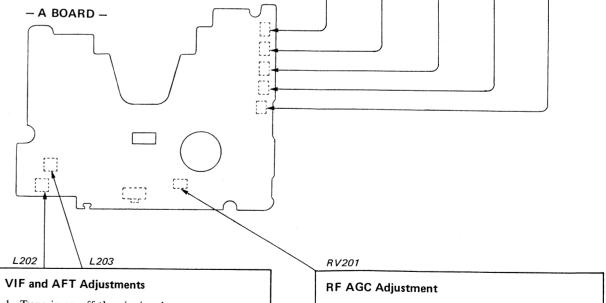
- 1. Set the BAND SELECT switch to VHF.
- 2. Turn the TUNING knob fully clockwise.
- 3. Turn the TUNING knob, set the dial pointer to the letter "2" on dial scale. Adjust RV151 for the optimum picture. In the area where an off-the-air signal can not be tuned in, adjust RV151 for 2.2V reading on VOM. ... (V.L. START)
- 4. Turn the TUNING knob, set the dial pointer to the letter "6" on dial scale. Adjust RV152 for the optimum picture. In the area where an off-the-air signal can not be tuned in, adjust RV152 for 18V reading on VOM. ... (V.L. END)
- 5. Turn the TUNING knob, set the dial pointer to the letter "7" on dial scale. Adjust RV153 for the optimum picture. In the area where an off-the-air signal can not be tuned in, adjust RV153 for 8.4V reading on VOM. ... (V.H. START)
- to the letter "13" on dial scale. Adjust RV154 for the optimum picture. In the area where an off-the-air signal can not be tuned in, adjust RV154 for 20V reading on VOM. ... (V.H. END)

6. Turn the TUNING knob, set the dial pointer

7. When tuning in all the off-the-air signals (VHF CH2-13) capable of receiving, make sure that the dial pointer is correctly set to the dial scale.

- 8. Set the BAND SELECT switch to UHF.
- 9. Turn the TUNING knob, set the dial pointer to the letter "69" on dial scale. Adjust RV155 for the optimum picture. In the area where an off-the-air signal can not be tuned in, adjust RV155 for 22V reading on VOM. ... (U.END)
- 10. When tuning in all the off-the-air signals (UHF) capable of receiving, make sure that the pointer is correctly set to the dial scale.





- 1. Tune in an off-the-air signal.
- 2. Adjust L202 (VIF) and L203 (AFT) for the best picutre.
- 1. Tune in an off-the-air signal.
- 2. Adjust RV201 so that snow noise disappears from the picture.

Waveforms

SECTION 2 DIAGRAMS

2-1. MOUNTING DIAGRAM

See page 15 for Semiconductor Lead Layouts.

MOUNTING DIAGRAM Note

• → ├ : MELF component.

• SCHEMATIC DIAGRAM Note

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- \bullet All resistors are in Ω and $^1\!/_{\!4}\,W$ or less unless otherwise specified.
 - : VIDEO signal path.
- B+ bus.
- _____ : adjustment for repair.
- Power voltage is 6V and fed with dc power supply from DC IN 6V jack. Voltages are dc with respect to ground under no-signal conditions.

Voltage variations may be noted due to normal production tolerances.

- : waveform numbers.
- Waveforms are taken to ground in color ber signal receiving mode by using osilloscope.

Voltage variations may be noted due to normal production tolerances.

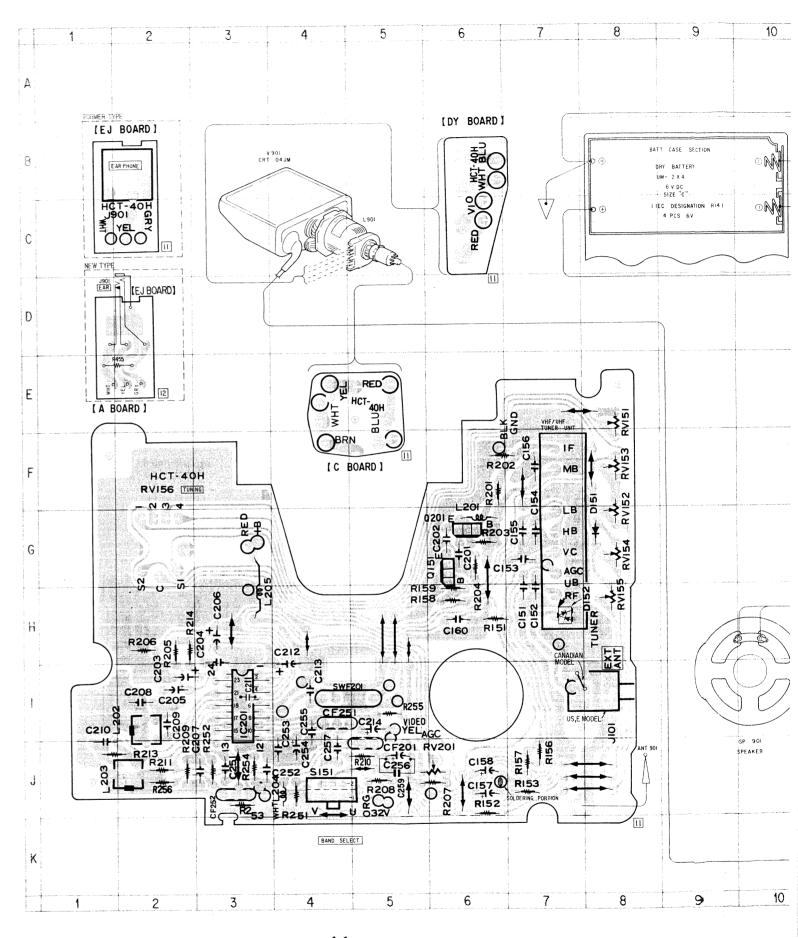
Switch

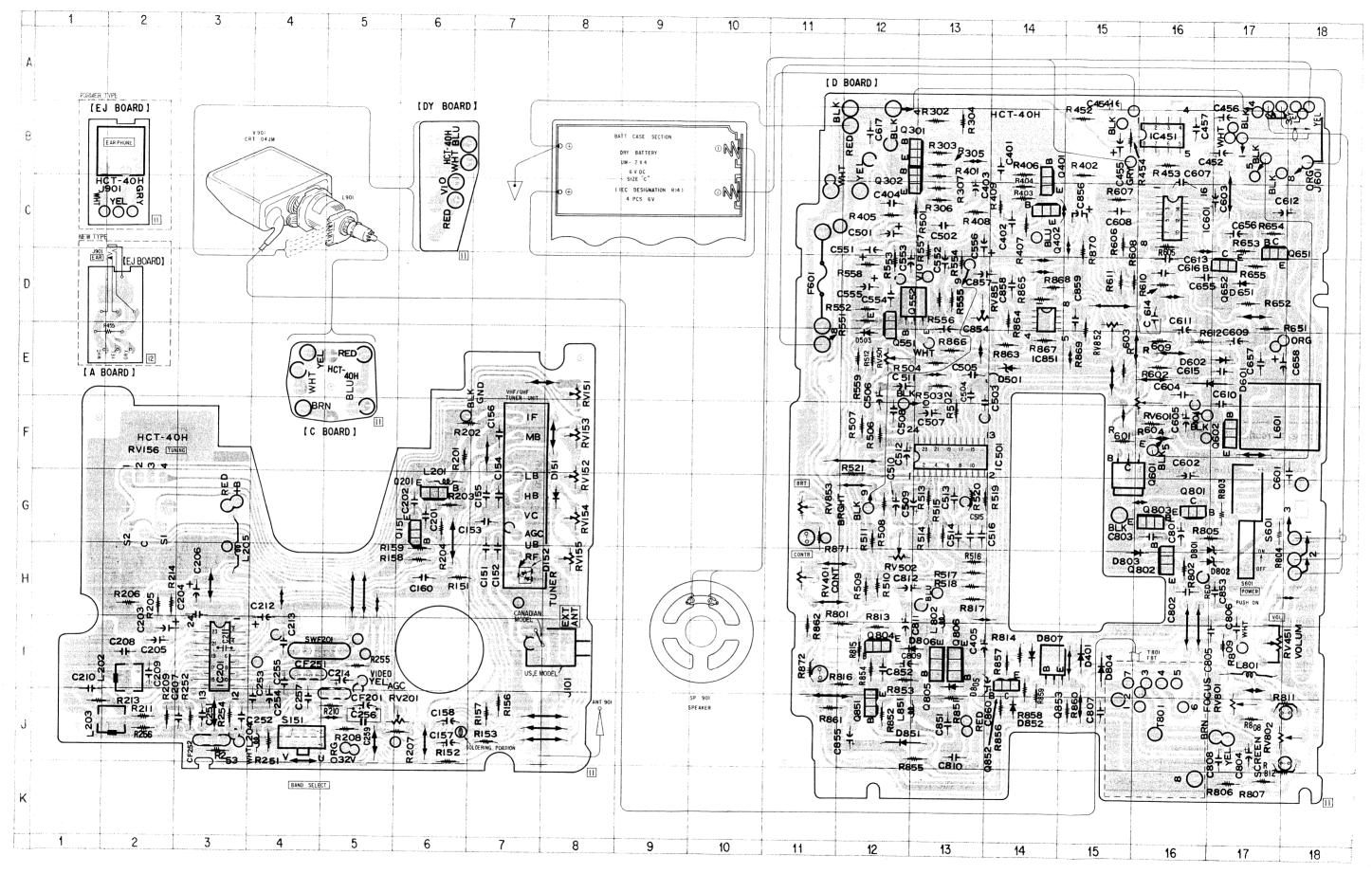
Ref. No.	Switch	Position
S151	BAND SELECT	VHF
S601	POWER	OFF

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D151	G-8	Q151	G-6
D152	H-8	Q201	G-6
D401	I-15	Q301	B-12
D501	E-14	0302	B-12
D503	E-12	Q401	B-14
D601	E-16	Q402	C-14
D602	E-17	Q551	D-12
D651	D-17	Q552	D-12
D801	G-17	Q601	F-15
D802	H-17	Q602	F-17
D803	H-16	Q651	C-17
D804	I-15	Q652	D-17
D805	I-13	Q801	G-16
D806	I-12	Q802	H-16
D807	1-14	Q803	G-16
D851	J-12	Q804	I-12
D852	J-14	Q805	I-13
		Q806	I-13
IC201	1-3	Q851	J-12
IC451	B-16	Q852	I-14
IC501	F-13	Q853	I-14
IC601	C-16		
IC851	D-14		

1 IVp-p 6 0.9Vp-p (12) 120Vp-p 13 28Vp-p 2 0.6Vp-p 4.5MHz (14) 50Vp-p (5) 40Vp-p (6) 2Vp-p 1.6Vp-p 6 Refer to 1 (7) 0.44Vp-p 8 4.8Vp-p (18) 0.6Vp-p (19)- 1.8Vp-p 9 0.8Vp-p (10) 0.48Vp-p 21 15Vp-p





-11-

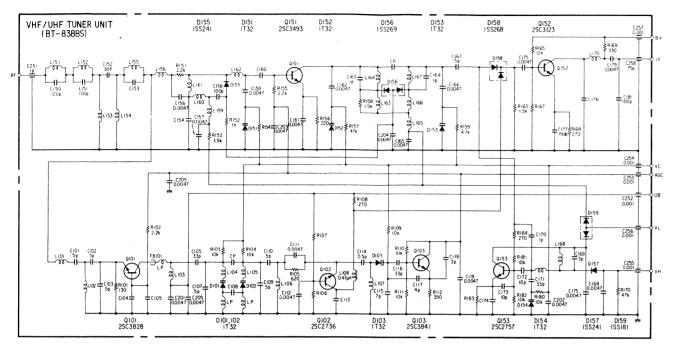
-14-

-13-

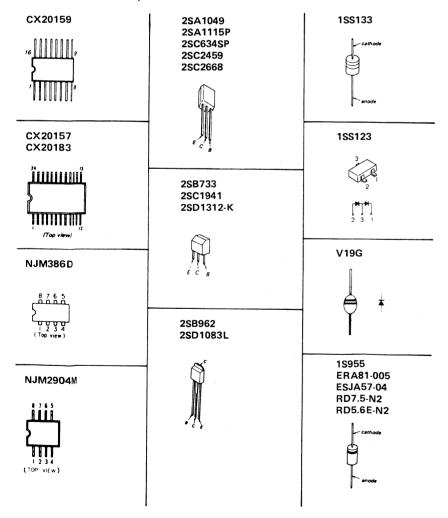
FD-42A FD-42A

2-3. VHF/UHF TUNER UNIT SCHEMATIC DIAGRAM

The VHF/UHF tuner unit is carefully adjusted at the factory and is supplied as one whole block for replacement.

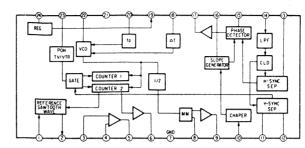


• Semiconducter Lead Layouts

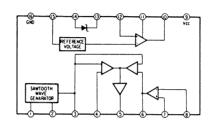


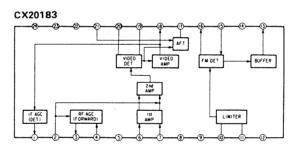
IC BLOCK DIAGRAMS

CX20157

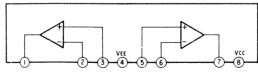


CX20159

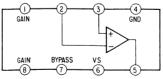




NJM2904M



NJM386D

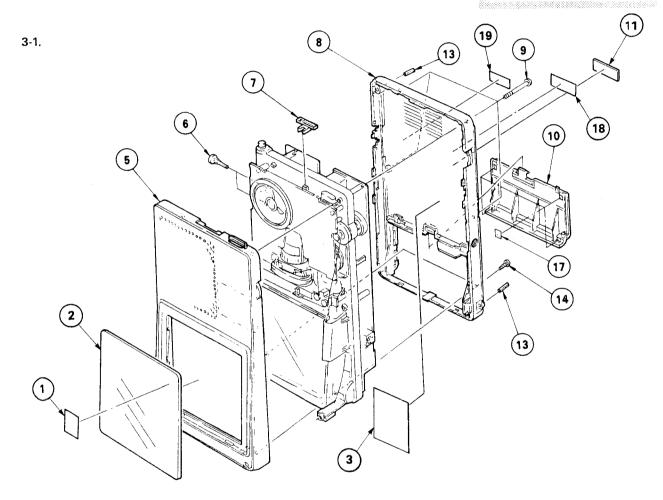


SECTION 3 **EXPLODED VIEWS AND PARTS LIST**

- NOTE:
 The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "* are not stocked since they are seldom required for routine service. Some delay should be antici-pated when ordering these items.
- •The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts Example: (RED) KNOB, BALANCE (WHITE) Cabinet's Color Parts' Color

The components identified by shading and mark Aare critical for safety.
Replace only with part number specified.

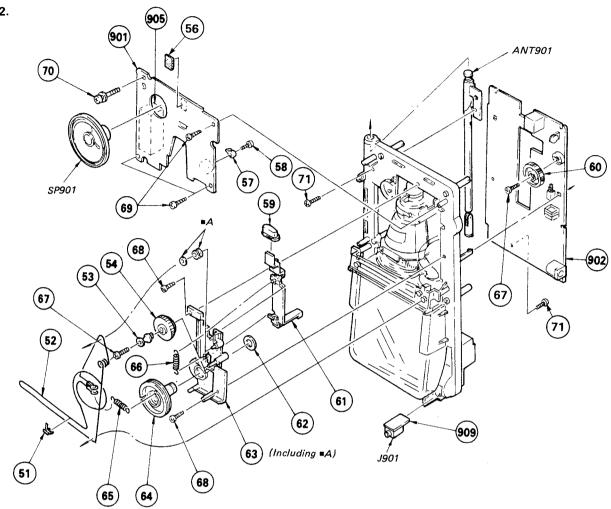
Les composants identifiés par une trame et une marque Asont critiques pour la securité. Ne les remplacer que par une pièce portant le numéro spécifié.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Rermarks
1	3-703-710-01	STICKER, SONY SYMBOL (12)		9	3-323-901-01	SCREW (2X36), CABINET	
2	3-323-998-01	FILTER				. , , ,	
3	*3-338-915-01	(US,E)LABEL, CAUTION		10	3-323-916-61	(US,E:WHITE)LID.	BATTERY CASE
				1	3-323-916-71	(US,E:GRAY,Canadian)LID.	
5	3-323-999-01	(US,E:WHITE)CABINET, N	FRONT	1	3-323-916-81	(US,E:PINK)LID,	BATTERY CASE
	3-323-999-11	(US,E:GRAY)CABINET,	FRONT		3-323-916-91	(US,E:BLUE-GRAY)LID,	
	3-323-999-21	(US,E:PINK)CABINET, F	FRONT			,	
	3-323-999-31	(US,E:BLUE-GRAY)CABINET,	FRONT	11	*3-701-999-00	LABEL, SERIAL NUMBER	
	3-323-999-41	(Canadian)CABINET, I	FRONT			,	
				13	7-626-301-31	SPRING PIN 2X10	
6	3-323-996-01	KNOB, ADJUSTMENT		14	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT	•
7	3-323-904-01	KNOB, SELECTION, BAND				, , ,	
				17	3-831-441-XX	SPACER	
8	3-338-901-01	(US,E:WHITE)CABINET, I	REAR	18	*3-338-936-01	(Canadian)LABEL, MODEL NU	MBER
	3-338-901-11	(US,E:GRAY)CABINET,	REAR	19	3-703-281-01	(Canadian)LABEL, DOC (A)	
	3-338-901-21	(US,E:PINK)CABINET, I	REAR			, , ,	
	3-338-901-31	(US,E:BLUE-GRAY)CABINET,	REAR				
	3-338-901-41	(Canadian)	RFAR				

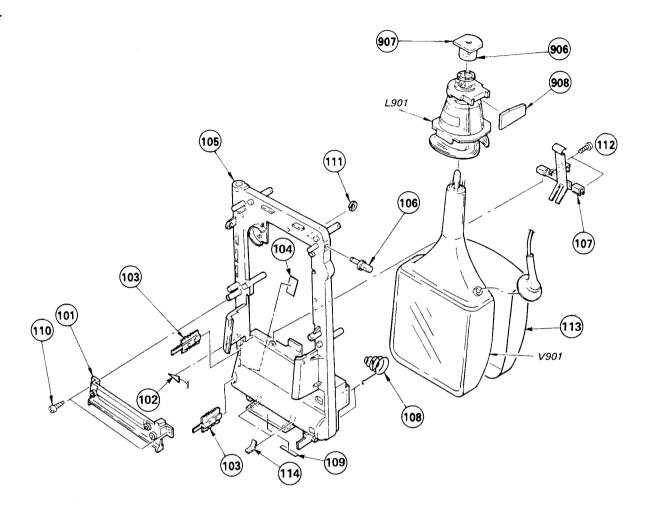
FD-42A

3-2.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	3-314-008-00	POINTER		66	4-858-478-00	SPRING. TENSION	
52	9-911-825-32	STRING DIAL 0.3DIA		67	3-888-156-00		
53	3-323-914-01	PULLEY, DIAL		68		SCREW +P 2.6X8 TYPE2 NON-SLIT	
54		KNOB ASSY, TUNING		69	7-685-104-19		
56	3-831-441-11			70	3-323-948-01		
				71	7-621-255-25	SCREW +P 2X4	
57	3-314-006-00	JOINT, TUNING		'-			
58		SCREW (1.7X4)		901	*A-3015-483-A	PC BOARD ASSY, A	
59	3-323-903-21	BUTTON, POWER				PC BOARD ASSY, D	
60	3-323-902-21			905		TUNER UNIT (BT-838BS)	
		,		909	*1-621-293-11		
61	3-323-919-01	LEVER (A), SWITCH				,	
62		RING, STOPPER		ANT901	1-501-330-11	ANTENNA, TLESCOPIC	
63		CHASSIS ASSY, DIAL CORD		J901		JACK (EARPHONE)	
64	3-323-907-01			SP901	1-503-759-11	SPEAKER	
6.5	3-564-040-00						

3-3.



Na.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101 102		RAIL ASSY, SUSPENDER, DIAL CORD PLATE. INDUCTION		111 112		STOP RING 2.0, TYPE -E SCREW +BVTT 2X8 (S)	
103	3-501-056-11	TERMINAL, POSITIVE		113	*2-153-087-01	COVER, CRT	
104		LABEL, CÁUTION, POWER		114	3-831-441-11	CUSHION (B)	
105	3-323-925-01						
				906	1-526-736-00	SOCKET, CRT	
106	3-323-926-01	BRACKET, STRAP		907	*1-621-297-11	PC BOARD, C	
107		BRACKET ASSY, CRT		908	*1-621-295-11	PC BOARD, DY	
108	3-701-835-00	•		L901	1-451-302-11	DEFLECTION YOKE	
109		LABEL, CAUTION, SERVICE		V901	1 8 736 853 0 0	CRT_04JM	. 174
110		SCREW +P 2X6 TYPE2 NON-SLIT					

The components identified by shading and mark <u>A</u> are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 4 ELECTRICAL PARTS LIST

NOTE:

- · Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF:μF, PF:μμF.

RESISTORS

· All resistors are in ohms. · F : nonflammable

MMH : mH, UH : µH

SEMICONDUCTORS

In each case, U : u, for example: UA...: μΑ..., UPA...: μΡΑ..., UPC...: μΡC, UPD...: μΡD...

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

ELECTRICAL PARTS

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
901 902 905	*A-3015-483-A *A-3089-242-A 1-463-790-11	PC BOARD ASS PC BOARD ASS TUNER UNIT (Y, D			C454 C455 C456	1-124-465-00 1-124-555-00 1-123-661-00	ELECT ELECT ELECT	0.47MF 1000MF 100MF	20% 20% 20%	50V 16V 6.3V
906 907 908 909	1-526-736-00 *1-621-297-11 *1-621-295-11 *1-621-293-11	SOCKET, CRT PC BOARD, C PC BOARD, DY PC BOARD, EJ				C457 C501 C502	1-136-165-00 1-124-245-00 1-136-165-00	MYLAR ELECT MYLAR	0.1MF 4.7MF 0.1MF	10% 20% 10%	50V 25V 50V
	1 1-501-330-11	ANTENNA, TLE	SCOPIC			C503 C504 C505	1-102-112-00 1-130-477-00 1-130-506-00	CERAMIC MYLAR MYLAR	330PF 0.0033MF 0.0015MF	10% 5% 10%	50Y 50V 50Y
C151 C152 C153	1-102-121-00 1-101-004-00 1-101-004-00	CERAMIC CERAMIC CERAMIC	0.0022MF 0.01MF 0.01MF	10%	50V 50V 50V	C506 C507 C508	1-124-257-00 1-124-124-00 1-130-481-00	ELECT ELECT MYLAR	2.2MF 220MF 0.0068MF	20% 20% 10%	50V 6.3V 50V
C154 C155 C156	1-101-004-00 1-102-121-00 1-101-004-00	CERAMIC CERAMIC CERAMIC	0.01MF 0.0022MF 0.01MF	10%	50V 50V 50V	C509 C510 C511	1-124-255-00 1-131-346-00 1-124-257-00	ELECT TANTALUM ELECT	1MF 0.68MF 2.2MF	20% 10% 20%	50V 35V 50V
C157 C158 C160	1-124-462-00 1-124-462-00 1-136-165-00	ELECT ELECT MYLAR	10MF 0.47MF 0.1MF	20% 20% 10%	16 V 50 V 50 V	C512 C513 C514	1-124-472-11 1-130-475-00 1-101-003-00	ELECT MYLAR CERAMIC	470MF 0.0022MF 0.0047MF	20% 5%	6.3V 50V 50V
C201 C202 C203	1-101-004-00 1-101-004-00 1-131-344-00	CERAMIC CERAMIC TANTALUM	0.01MF 0.01MF 0.33MF	10%	50V 50V 35V	C515 C516 C551	1-130-471-00 1-130-479-00 1-124-257-00	MYLAR MYLAR ELECT	0.001MF 0.0047MF 2.2MF	10% 10% 20%	50V 50V 50V
C204 C205 C206	1-101-004-00 1-131-361-00 1-124-224-00	CERAMIC TANTALUM ELECT	0.01MF 2.2MF 47MF	10% 20%	50V 20V 6.3V	C552 C553 C554	1-124-258-00 1-124-255-00 1-102-820-00	ELECT ELECT CERAMIC	3.3MF 1MF 330PF	20% 20% 10%	35 V 50 V 50 V
C207 C208 C209	1-101-004-00 1-101-004-00 1-102-971-00	CERAMIC CERAMIC CERAMIC	0.01MF 0.01MF 82PF	5%	50V 50V 50V	C555 C556 C601	1-124-225-00 1-123-661-00 1-102-074-00	ELECT ELECT CERAMIC	100MF 100MF 0.001MF	20% 20% 10%	6.3V 6.3V 50V
C210 C211 C212	1-102-971-00 1-163-059-00 1-124-472-11	CERAMIC CERAMIC MELF ELECT	82PF 0.01MF 470MF	5% 30% 20%	50V 16V 6.3V	C602 C603	1-123-839-00 1-123-617-00	ELECT ELECT	1000MF 10MF	20% 20% 20%	16 V 16 V 50 V
C213 C214 C251	1-101-004-00 1-123-617-00 1-102-961-00	CERAMIC ELECT CERAMIC	0.01MF 10MF 27PF	20% 5%	50V 16 V 50V	C604 C605 C607	1-136-153-00 1-123-661-00 1-130-506-00	MYLAR ELECT MYLAR	0.01MF 100MF 0.0015MF	20% 10%	6.3V 50V
C252 C253 C254	1-130-488-00 1-101-004-00 1-124-224-00	MYLAR CERAMIC ELECT	0.027MF 0.01MF 47MF	5% 20%	50V 50V 6.3V	C608 C609 C610	1-130-481-00 1-127-511-00 1-136-153-00	MYLAR ELECT(SOLID) MYLAR	0.01MF	10% 20% 10%	50V 25V 50V
C255 C256 C257	1-161-055-00 1-124-140-00 1-102-961-00	CERAMIC ELECT CERAMIC	0.022MF 220MF 27PF	10% 20% 5%	25V 6.3V 50V	C611 C612 C613 C614	1-124-258-00 1-127-498-00 1-101-004-00	ELECT(SOLID) CERAMIC	0.01MF	20%	35V 16V 50V 50V
C259 C401 C402	1-163-063-00 1-102-983-00 1-136-163-00	CERAMIC MELF CERAMIC MYLAR	0.022MF 220PF 0.068MF	10% 10%	25V 50V 50V	C615 C616	1-130-479-00 1-102-824-00 1-102-115-00	MYLAR CERAMIC CERAMIC	0.0047MF 470PF 560PF	10% 10% 10%	50V 50V 50V
C403 C404 C405 C452	1-124-124-00 1-102-820-00 1-124-667-11 1-123-617-00	ELECT CERAMIC ELECT ELECT	220MF 330PF 10MF 10MF	20% 10% 20% 20%	6.3V 50V 100V 16V	C617 C655 C656 C657	1-101-004-00 1-102-983-00 1-124-257-00 1-102-074-00	CERAMIC CERAMIC ELECT CERAMIC	0.01MF 220PF 2.2MF 0.001MF	10% 20% 10%	50V 50V 50V

ELECTRICAL PARTS

ELECTRICAL PARTS

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C658 C801 C802 <u>∧</u>	1-124-261-00 1-124-257-00 1-106-373-00	ELECT	10MF 2.2MF 0.018MF	20% 20% 5%	50V 50V 100V	IC201 IC451 IC501	8-759-602-99 8-759-700-89 8-752-030-28	IC CX20183 IC NJM386D IC CX20157			
€803. <u>Å</u> €804 €805	1-106-196-00 1-124-472-11 1-162-697-11	ELECT	0.01MF 470MF 0.001MF	5% 20%	100V 6.3V 1KV	IC851	8-759-802-39 8-759-701-01	IC CX20159 IC NJM2904M	/FVT	ANT)	
C806 C807 C808	1-162-147-00 1-136-550-11 1-108-385-00	CERAMIC FILM MYLAR	0.0022MF 0.068MF 0.047MF	10% 10%	1KV 63V 100V	J101 J601 J901	1-507-563-00 (FORMER TYPE)	JACK, ANTENNA DC JACK (DC I 1-501-921-0 1-507-929-2	N 6V) D JACI	K (EAR	
C809 C810 C811	1-124-257-00 1-106-377-00 1-127-511-00	ELECT MYLAR ELECT(SOLID)	2.2MF 0.027MF 6.8MF	20% 5% 20%	50V 200V 25V	L201 L202 L203 L204	1-408-551-00 1-404-633-11 1-404-633-11 1-408-559-00	MICRO INDUCTO COIL, VIF DET COIL, VIF DET MICRO INDUCTO	ECTOR ECTOR	н	
C812 C851 C852	1-123-333-00 1-136-157-00 1-102-820-00	ELECT MYLAR CERAMIC	100MF 0.022MF 330PF	20% 10% 10%	25 V 50 V 50 V	L205 L601	1-408-134-11 1-448-802-11 1-409-121-00	MICRO INDUCTO TRANSFORMER, MICRO INDUCTO	R 270UI DC-DC (H CONVER	TER
C853 C854 C855	1-162-147-00 1-123-617-00 1-123-932-00	CERAMIC ELECT ELECT	0.0022MF 10MF 4.7MF	20% 20%	1KV 16V 160V	L802 L851 L901		MICRO INDUCTO MICRO INDUCTO DEFLECTION YO	R 22MM		
C856 C857 C858	1-124-638-11 1-131-347-00 1-130-481-00	ELECT TANTALUM MYLAR	22MF 1MF 0.0068MF	20% 10% 10%	6.3V 25V 50V	Q151 Q201 Q301	8-729-600-27 8-729-266-83 8-729-600-60	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2668		
C859 C860	1-130-475-00 1-124-255-00	MYLAR ELECT	0.0022MF 1MF	5% 20%	50 V 50 V	Q302 Q401	8-729-600-27 8-729-245-91	TRANSISTOR 2S	C634SP		
CF251	1-409-370-00 1-567-115-00	TRAP, CERAMI FILTER, CERA	MIC			Q401 Q402 Q551	8-729-600-27 8-729-600-27	TRANSISTOR 2S TRANSISTOR 2S	C634SP		
D151 D152 D401	1-567-513-11 8-719-901-33 8-719-101-23 8-719-108-13	DIODE 1SS133 DIODE 1SS123 DIODE 1SS55				Q552 Q601 0602	8-729-113-32 8-729-102-78 8-729-111-55	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	B733 B962	ĸ	
D501 D503 D601	8-719-102-81 8-719-901-33 8-719-908-06	DIODE RD7.5E DIODE 1SS133 DIODE ERA81-				Q651 Q652 Q801	8-729-204-91 8-729-245-91 8-729-600-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1049 C2459	•	
D602 D651	8-719-901-33	DIODE 1SS133 DIODE 1SS133 DIODE RD7.5E		. LąuK.	ana jaksija	Q802 Q803 0804	8-729-111-55 8-729-111-55 8-729-600-27	TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI	01312-1 01312-1		
	8-719-102-71 8-719-901-33 8-719-903-28	DIODE RD5.6F DIODE 1SS133 DIODE ESJAS7	-N2 .	ter i e gan e e e e	en en set in gen Marie en	0805 0806	8-729-301-87 8-729-301-87	TRANSISTOR 2SI TRANSISTOR 2SI	01083L 01083L		
D805 D806	8-719-901-33 8-719-901-33	DIODE 188133 DIODE 188133				Q851 Q852 Q853	8-729-194-12 8-729-600-60 8-729-194-12	TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI	A1115P C1941	rα	1 /611
D807 D851 D852	8-719-901-33 8-719-918-77 8-719-901-33	DIODE 1SS133 DIODE V19G DIODE 1SS133				R151 R152 R153	1-249-430-11 1-249-425-11 1-249-425-11	CARBON CARBON	12K 4.7K 4.7K	5% 5% 5%	1/6W 1/6W 1/6W
F601 <u>A</u>	1-532-625-00	FUSE, GLASS	TUBÉ (1.25A)	pidarik	B. de 1	R156 R157 R158	1-215-477-00 1-259-377-11 1-249-429-11	CARBON CARBON CARBON	220K 2.2M 10K	5% 5% 5%	1/6W 1/6W 1/6W

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ELECTRICAL PARTS

ELECTRICAL PARTS

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
R159	1-249-437-11	CARBON	47K	5%	1/6W	R509	1-249-439-11	CARBON	68K	5%	1/6W
R201	1-249-411-11	CARBON	330	5%	1/6W	R510	1-247-881-00	CARBON	120K	5%	1/6W
R202	1-247-849-00	CARBON	5.6K	5%	1/6W	R511	1-249-441-11	CARBON	100K	5%	1/6W
R203	1-249-413-11	CARBON	470	5%	1/6W	R512	1-249-393-11	CARBON	10	5%	1/6W
R204	1-249-417-11	CARBON	1K	5%	1/6W	R513	1-249-437-11	CARBON	47K	5%	1/6W
R205	1-249-410-11	CARBON	270	5%	1/6W	R514	1-249-437-11	CARBON	47K	5%	1/6W
R206	1-249-429-11	CARBON	10K	5%	1/6W	R515	1-249-429-11	CARBON	10K	5%	1/6W
R207	1-249-430-11	CARBON	12K	5%	1/6W	R516	1-249-417-11	CARBON	1K	5%	1/6W
R208	1-247-893-00	CARBON	390K	5%	1/6W	R517	1-249-433-11	CARBON	22K	5%	1/6W
R209	1-247-893-00	CARBON	390K	5%	1/6W	R518	1-249-414-11	CARBON	560	5%	1/6W
R210	1-215-394-00	CARBON	75	5%	1/6W	R519	1-249-425-11	CARBON	4.7K	5%	1/6W
R211	1-247-849-00	CARBON	5.6K	5%	1/6W	R520	1-249-405-11	CARBON	100	5%	1/6W
R213	1-249-421-11	CARBON	2.2K	5%	1/6W	R521	1-249-417-11	CARBON	1K	5%	1/6W
R214	1-249-421-11	CARBON	2.2K	5%	1/6W	R551	1-249-431-11	CARBON	15K	5%	1/6W
R251	1-249-410-11	CARBON	270	5%	1/6W	R552	1-249-410-11	CARBON	270	5%	1/6W
R252	1-249-406-11	CARBON	120	5%	1/6W	R553	1-249-417-11	CARBON	1K	5%	1/6W
R253	1-249-413-11	CARBON	470	5%	1/6W	R554	1-249-393-11	CARBON	10	5%	1/6W
R254	1-249-429-11	CARBON	10K	5%	1/6W	R555	1-249-408-11	CARBON	180	5%	1/6W
R255	1-249-401-11	CARBON	47	5%	1/6W	R556	1-249-416-11	CARBON	820	5%	1/6W
R256	1-249-417-11	CARBON	1K	5%	1/6W	R557	1-249-435-11	CARBON	33K	5%	1/6W
R302	1-249-405-11	CARBON	100	5%	1/6W	R558	1-247-899-00	CARBON	680K	5%	1/6W
R303	1-249-438-11	CARBON	56K	5%	1/6W	R559	1-249-428-11	CARBON	8.2K	5%	1/6W
R304	1-249-430-11	CARBON	12K	5%	1/6W	R601	1-249-441-11	CARBON	100K	5%	1/6W
R305	1-249-425-11	CARBON	4.7K	5%	1/6W	R602	1-249-413-11	CARBON	470	5%	1/6W
R306 R307 R401	1-249-419-11 1-249-415-11 1-249-405-11	CARBON CARBON CARBON	1.5K 680 100	5% 5% 5%	1/6W 1/6W 1/6W		1-215-443-00 1-215-454-00 1-249-441-11	METAL METAL CARBON			1/6W 1/6W 1/6W
R402	1-249-430-11	CARBON	12K	5%	1/6W	R606	1-249-438-11	CARBON	56K	5%	1/6W
R403	1-249-418-11	CARBON	1.2K	5%	1/6W	R607	1-247-864-00	CARBON	24K	5%	1/6W
R404	1-249-401-11	CARBON	47	5%	1/6W	R608	1-249-417-11	CARBON	1K	5%	1/6W
R405	1-247-826-00	CARBON	620	5%	1/6W	R609	1-249-411-11	CARBON	330	5%	1/6W
R406	1-215-493-00	CARBON	1M	5%	1/6W	R610	1-249-440-11	CARBON	82K	5%	1/6W
R407	1-249-418-11	CARBON	1.2K	5%	1/6W	R611	1-249-429-11	CARBON	10K	5%	1/6W
R408 R409 R452	1-249-429-11 1-249-437-11 1-249-428-11	CARBON CARBON CARBON	10K 47K 8.2K	5% 5% 5%	1/6W 1/6W 1/6W	R612 R651 R652	1-215-466-00	CARBON CARBON CARBON	2.2 75K 22K	5% 5% 5%	1/6W 1/FW 1/6W
R453 R454 R455 R501	1-249-397-11 1-249-397-11 1-247-791-00	CARBON CARBON CARBON	22 22 22	5% 5% 5%	1/6W 1/6W 1/6W	R653 R654 R655	1-249-439-11	CARBON CARBON CARBON	56K 68K 4.7K	5% 5% 5%	1/6W 1/6W 1/6W
R502 R503 R504	1-249-425-11 1-249-433-11 1-249-425-11	CARBON CARBON CARBON	4.7K 22K 4.7K	5% 5%	1/6W 1/6W 1/6W	R801 R802 R803 A	1-249-410-11 1-249-413-11 \1-249-413-11	CARBON CARBON CARBON	470	5% 5% 5%	1/6W 1/6W 1/6W
R504 R506 R507 R508	1-247-849-00 1-249-433-11 1-249-437-11 1-247-893-00	CARBON CARBON CARBON CARBON	5.6K 22K 47K 390K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	R804 A R805 R806	1-249-409-11	CARBON	220	5%	1/6W 1/6W 1/6W

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ELECTRICAL PARTS

Ref.No.	Part No.	Descriptio	<u>on</u>
R807	1-259-378-11	CARBON	3.3M 5% 1/6W
R808	1-259-379-11	CARBON	4.7M 5% 1/6W
R809	1-259-379-11	CARBON	4.7M 5% 1/6W
R811	1-259-378-11	CARBON	3.3M 5% 1/6W
R812	1-259-378-11	CARBON	3.3M 5% 1/6W
R813	1-249-435-11	CARBON	33K 5% 1/6W
R814	1-249-438-11	CARBON	56K 5% 1/6W
R815	1-249-413-11	CARBON	470 5% 1/6W
R816	1-249-409-11	CARBON	220 5% 1/6W
R817	1-247-795-00	CARBON	33 5% 1/6W
R851	1-249-401-11	CARBON	47 5% 1/6W
R852	1-247-883-00	CARBON	150K 5% 1/6W
R853	1-249-433-11	CARBON	22K 5% 1/6W
R854	1-249-427-11	CARBON	6.8K 5% 1/6W
R855	1-247-885-00	CARBON	180K 5% 1/6W
R856	1-249-441-11	CARBON	100K 5% 1/6W
R857	1-259-377-11	CARBON	2.2M 5% 1/6W
R858	1-249-435-11	CARBON	33K 5% 1/6W
R859	1-249-418-11	CARBON	1.2K 5% 1/6W
R860	1-247-897-00	CARBON	560K 5% 1/6W
R861	1-249-440-11	CARBON	82K 5% 1/6W
R862	1-247-881-00	CARBON	120K 5% 1/6W
R863	1-249-434-11	CARBON	27K 5% 1/6W
R864	1-249-434-11	CARBON	27K 5% 1/6W
R865	1-249-434-11	CARBON	27K 5% 1/6W
R866	1-249-438-11	CARBON	56K 5% 1/6W
R867	1-249-441-11	CARBON	100K 5% 1/6W
R868	1-249-425-11	CARBON	4.7K 5% 1/6W
R869	1-249-434-11	CARBON	27K 5% 1/6W
R870	1-249-435-11	CARBON	33K 5% 1/6W
R871	1-247-888-00	CARBON	240K 5% 1/6W
R872	1-215-477-00	CARBON	220K 5% 1/6W
RV151	1-230-775-11	RES ADJ	CARBON 10K
RV151	1-230-776-11		CARBON 100K
RV153	1-237-617-11		CARBON 50K
RV154	1-230-776-11	DEC AD 1	CARBON 100K
RV155	1-230-776-11		CARBON 100K
RV156	1-237-613-11		CARBON (WITH SW)200K (TUNING)
DV20:	1 220 775 11	DEC ADI	CARRON 10V
RV201 RV401	1-230-775-11 1-237-610-11		CARBON 10K
RV401	1-237-610-11		CARBON 5K (CONTR) CARBON 10K (VOL)
· -			
RV501	1-237-619-11		CARBON 5K
RV502	1-237-621-11 <u>1-237-618-11</u>		CARBON 220K CARBON 2.2K
	W1-521-010-11	inco, nou,	CANDON 2.2A

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV801 RV802 RV851	1-237-612-11	RES, ADJ, METAL GRAZE 4.7M RES, ADJ, METAL GRAZE 4.7M RES, ADJ, CARBON 20K
RV852 RV853	1-228-994-00 1-237-611-11	RES, ADJ, CARBON 10K RES, ADJ, CARBON 50K (BRT)
S151 S601	1-554-222-00 1-554-358-00	SWITCH, SLIDE (BAND SELECT) SWITCH, PUSH (POWER)
SP901	1-503-759-11	SPEAKER
SWF201	1-404-635-11	SAWF (DIP TYPE)
T801 <u>∕</u>	1-439-405-11	TRANSFORMER ASSY, FLYBACK
V901 <u>∕</u>	8-736-853-00	CRT 04JM

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-559-523-11 1-504-090-11	(Canadian)CORD, MONITOR, VTR (US:SEARS)EARPHONE (ME-L82)
3-323-930-01 3-338-904-01	STRAP CUSHION (LEFT)
3-338-907-01 3-338-939-01 3-338-938-01	(US,E)INDIVIDUAL CARTON (Canadian)INDIVIDUAL CARTON (US:SEARS)INDIVIDUAL CARTON
3-338-912-01 3-338-914-01 3-338-937-01 3-701-622-00	SHEET, PROTECTION CUSHION (RIGHT) (US:SEARS)SLEEVE, ADAPTOR BAG, POLYETHYLENE
3-338-913-01 3-703-898-01 3-703-904-01 3-703-908-01	(US)LABEL, COLOR (BLUE-GRAY) (US,E)LABEL, COLOR (GRAY) (US)LABEL, COLOR (PINK) (US,E)LABEL, COLOR (WHITE)
3-765-864-21 3-765-864-31	(US.E)MANUAL, INSTRUCTION (Canadian)MANUAL, INSTRUCTION
3-764-842-21 4-491-213-22	(US:SEARS)INSTRUCTION (US)INSTRUCTION

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